

**CATALOGUE OF THE SILURIFORM
(TELEOSTEI: OSTARIOPHYSI) TYPES IN THE
RAFFLES MUSEUM OF BIODIVERSITY RESEARCH,
NATIONAL UNIVERSITY OF SINGAPORE**



Heok Hee Ng and Kelvin K. P. Lim

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Cover photography by Heok Hee Ng. Top row (left–right): *Acrochordonichthys falcifer*, *Batasio feruminatus*, *Ompok platyrhynchus*; 2nd row (left–right): *Akysis inermis*, *Nanobagrus nebulosus*, *Ompok leiacanthus*; 3rd row (left–right): *Parakysis longirostris*, *Clarias batu*, *Caelatoglanis zonatus*; bottom row (left–right): *Amblyceps foratum*, *Encheloclarias curtisoma*, *Pseudecheneis sympelvica*.

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INTRODUCTION

We provide an updated catalogue of the primary and secondary type material of catfishes (Siluriformes) deposited in the Zoological Reference Collection (ZRC), Raffles Museum of Biodiversity Research, National University of Singapore. The collection is strongly focused on material collected in the region (South, East and Southeast Asia) and currently houses type material of 96 taxa (of which 55 are represented by primary types); 94 of these taxa are currently considered valid.

The fish collection in the Zoological Reference Collection (ZRC) of the Raffles Museum of Biodiversity Research (RMBR), National University of Singapore is the largest such collection in Southeast Asia (with about 90,000 specimens in more than 50,000 lots). The collection encompasses part of what was formerly the natural history collection of the Raffles Museum (renamed the National Museum in 1969, although there is conflicting information on the date the renaming took place, which is discussed below) and predominantly consists of material collected in Southeast Asia. The collection was moved out of the National Museum in 1972 and was since moved to various locations (Yang, 1990) before finally moving to its present location in 1987. Much of the material collected before the late 1980s consisted of specimens transferred from the National Museum and fish collections made by fisheries institutes and researchers at the University of Singapore (now the National University of Singapore); see Alfred (1970) for a brief history of the collections made prior to 1970. From the late 1980s, the collection has grown considerably, largely due to greatly intensified collecting efforts in the region (Southeast Asia). Material in the collection has also been the subject of intensified studies leading to the discovery of many new taxa. Although a type catalogue of the fish collection (when the collection was still housed in the National Museum) was published by Alfred (1970), many new taxa whose types are deposited in the ZRC have been described since then, and an updated type catalogue is badly needed.

We therefore present here an updated catalogue of the types of the siluriform fishes deposited in the ZRC (as of 31 December 2007), illustrate all primary siluriform types in the collection, and briefly discuss aspects of curatorial practices with regards to the fish collection.

MUSEUM ABBREVIATIONS AND NUMBERING SYSTEMS

There is conflicting information as to when the Raffles Museum was formally renamed the National Museum. Most sources (e.g. Koh, 2006) indicate a date of 1969, but the National Museum's website (<http://www.nationalmuseum.sg/>) indicates a date of 1965. This confusion is further compounded by the fact that the Bulletin of the Raffles Museum was formally renamed the Bulletin of the National Museum in 1961. We were unable to determine the exact date the name change took place, but for the purposes of this study, consider the earliest date (1961) to be the correct one. When the collections were still part of the National Museum, the abbreviation NMS (standing for National Museum, Singapore) was used for the material (e.g. Alfred, 1966). Prior to August 1957 (when the collections were housed in what was still known as the Raffles Museum), the fish specimens had not been catalogued (Alfred, 1970) and consequently no abbreviations or numbers had been previously assigned to the material. After the material was transferred to its present premises in the National University of Singapore in 1986, the abbreviation ZRC was very often used for the material. Although Leviton et al. (1985) assign the abbreviation USDZ (standing for the University of Singapore Department of Zoology) following Fricke (1983), for the component of the collection that was housed in the National University of Singapore (prior to its consolidation with the material from the National Museum), this abbreviation should be replaced by ZRC. Rainboth (1989) also used the abbreviation NUS (standing for National University of Singapore) for fish material deposited in the ZRC. This non-standard usage should be discarded in lieu of ZRC. Although the ZRC was incorporated into the RMBR in 2001, it remains a distinct entity and we therefore retain the abbreviation to standardize usage.

The fish specimens in the ZRC are recorded in 10 handwritten catalogues (computerization of the database is still under way). Until 1986, a catalogue number was used for either a specimen, or a series of specimens collected from the same locality at the same time. From 1986 to 1994, each specimen was assigned an individual number (this ran from ZRC 4631 to ZRC 36852). Since 1994, the practice of assigning a single catalogue number for a series collected at the same locality and time has been reverted to. Some of the older material bear additional numbers that are preceded by the letter F (e.g., Eschmeyer, 2007, lists the holotype of *Leiocassis chaseni* as also bearing the number F.245), but these are numbers assigned by collectors in the field and are not associated with the catalogue number in any way.

THE SILURIFORM TYPE SPECIMENS OF THE ZOOLOGICAL REFERENCE COLLECTION, RAFFLES MUSEUM OF BIODIVERSITY RESEARCH

In the following account, the families are listed alphabetically. This treatment is also applied to the genus and species names, with the original names being used. The following information is given for each account: (1) the original name, author and year of description; (2) the abbreviated reference for the original description; (3) listing of type specimens, with the catalogue numbers, number of specimens in the lot, size, locality, collector(s) and collection dates; (4) remarks and (5) current name of the taxon.

It is not possible to provide images of all the type specimens due to constraints in resources. However, images of all primary types (holotype, lectotype, syntype(s) or neotypes) in three aspects (dorsal, lateral and ventral) are provided in this catalog (the only exceptions being the holotypes of *Wallagonia tweediei*, which is a plaster cast of the right half of the fish, and *Leiocassis chaseni*, which is in too delicate a state to enable photography out of its container). High resolution digital images of the primary types are also made available via contact with the authors.

The collection contains eight families and 96 species represented by type material: Akysidae (22 spp.), Amblycipitidae (4 spp.), Bagridae (24 spp.), Clariidae (13 spp.), Horabagridae (1 sp.), Pangasiidae (1 sp.), Siluridae (16 spp.), Sisoridae (15 spp.). Familial assignment follows that of Ferraris (2007). All of the type material consists of Asian taxa.

INSTITUTIONAL ABBREVIATIONS

The following institutional abbreviations are used:

AMS	The Australian Museum, Sydney
ANSP	Academy of Natural Science, Philadelphia
BMNH	The Natural History Museum, London
CAS	California Academy of Sciences, San Francisco
CMK	Collection of Maurice Kottelat, Cornol
FMNH	The Field Museum, Chicago
LARRI	Living Aquatic Resources Research Institute, Vientiane
MNHN	Muséum National d'Histoire Naturelle, Paris
MRAC	Musée Royal de l'Afrique Centrale, Tervuren
MZB	The Research and Development Centre for Biology, The Indonesian Institute of Sciences, Cibinong
MZUSP	Museu de Zoologia da Universidade de São Paulo, São Paulo
NIFI	National Inland Fisheries Institute, Bangkok
NRM	Naturhistoriska Riksmuseet, Stockholm
RMNH	Nationaal Natuurhistorisch Museum, Leiden
SBM	Sabah Museum, Kota Kinabalu, Sabah
SMK	The Sarawak Museum, Kuching, Sarawak
UMKL	Jabatan Zoologi, Universiti Malaya, Kuala Lumpur
UMMZ	Museum of Zoology, University of Michigan, Ann Arbor
USNM	National Museum of Natural History, Smithsonian Institution, Washington D. C.
WHT	The Wildlife Heritage Trust of Sri Lanka, Colombo
ZFMK	Zoologisches Forschungsinstitut und Museum Alexander Koenig, Bonn
ZMA	Zoölogisch Museum Amsterdam, Universiteit van Amsterdam, Amsterdam
ZMH	Zoologisches Institut und Zoologisches Museum der Universität, Hamburg
ZSI	The Zoological Survey of India, Kolkata
ZSI-SRS	The Zoological Survey of India, Southern Regional Station, Chennai

FAMILIES

Akysidae

***Acrochordonichthys falcifer* Ng & Ng, 2001**

J. Fish Biol. 58: 408, Figs. 5a, 6g & 16.

Holotype: ZRC 43321, 76.6 mm SL, Borneo: Sabah, Lahad Datu District, Sungai Segama, coll. K. Martin-Smith, 5 Dec.1996 (**Fig. 1**).



Fig. 1. *Acrochordonichthys falcifer*, holotype, ZRC 43321, 76.6 mm SL, Borneo: Sabah, Lahad Datu District, Sungai Segama.

Paratypes: ZRC 43322 1 ex., 92.1 mm SL, Borneo: Sabah, Lahad Datu District, Sungai Segama, opposite Palum Tambun, coll. K. Martin-Smith, 27 Nov.1996. ZRC 43323, 2 ex., 66.5–78.8 mm SL, Borneo: Sabah, Lahad Datu District, Sungai Segama, coll. K. Martin-Smith, 5 Dec.1996. ZRC 43324, 1 ex., 74.8 mm SL, Borneo: Sabah, Lahad Datu District, Sungai Segama, coll. K. Martin-Smith, 5 Dec.1996.

Remarks: Additional paratypes in SBM and FMNH.

Current name: *Acrochordonichthys falcifer*

***Acrochordonichthys guttatus* Ng & Ng, 2001**

J. Fish Biol. 58: 394, Figs. 6a, 7b, 8b & 10.

Paratypes: ZRC 41966, 2 ex., 74.1–77.7 mm SL, Borneo: Kalimantan Tengah, Barito basin, Sungai Barito at Muara Laung, coll. D. Siebert, A. Tjakradiwdjaja & O. Crimmen, 20–22 Feb.1991.

Remarks: Holotype in MZB. Additional paratypes in BMNH, CMK, MZB and MZUSP.

Current name: *Acrochordonichthys guttatus*

***Acrochordonichthys septentrionalis* Ng & Ng, 2001**

J. Fish Biol. 58: 401, Figs. 6d & 12.

Paratypes : ZRC 2341, 1 ex., 95.5 mm SL, Malaysia: Pahang, King George V National Park (Taman Negara), coll. E. O. Shebbeare, 1939. ZRC 2360, 1 ex., 99.4 mm SL, Malaysia: Pahang, Kuala Tahan, coll. M. W. F. Tweedie, Apr.1940.

Remarks: Holotype and additional paratypes in NIFI.

Current name: *Acrochordonichthys septentrionalis*

***Akysis alfredi* Ng & Kottelat, 1998**

J. Nat. Hist. 32: 1063, Figs. 4a, 5, 7 & 13a.

Holotype: ZRC 40714, 25.3 mm SL, Malaysia: Pahang, Tasek Bera, about 300 m east of Fort Iskandar; coll. unknown, 1971 (**Fig. 2**)

Paratypes: ZRC 40715, 17 ex., 23.5–30.0 mm SL, data as for holotype. ZRC 20755–20757, 3 ex., 24.7–25.6 mm SL, Malaysia: Pahang, Tasek Bera, Fort Iskandar, coll., E. R. Alfred, 11 Jun.1971.

Remarks: Additional paratypes in CMK and UMMZ.

Current name: *Pseudobagarius alfredi*

***Akysis clavulus* Ng & Freyhof, 2003**

Ichthyol. Explor. Freshwaters 14: 312, Figs. 1–2.

Paratypes: ZRC 46177, 3 ex., 26.8–30.0 mm SL, Vietnam: Khanh Hoa province, Song Duc My about 10 km west of Ninh Hoa; 12°32.22"N 109°1.38"E, coll. J. Freyhof & D. V. Serov, 10 Feb.1999.

Remarks: Holotype in ZFMK. Additional paratypes in UMMZ and ZFMK.

Current name: *Akysis clavulus*

***Akysis clinatus* Ng & Rainboth, 2005**

Raffles Bull. Zool. Suppl. 13: 34, Figs. 1 & 3a.

Holotype: ZRC 47288, 30.5 mm SL, Cambodia: Stung Chhay River, Tok Kong village on road from Phnom Penh to Sihanoukville, 10°56'37.8"N 113°47'47.4"E, coll. H. H. Tan & H. H. Ng, 24 May.1999 (**Fig. 3**).

Paratypes: ZRC 46159, 3 ex., 27.0–33.0 mm SL, data as for holotype.

Current name: *Akysis clinatus*



Fig. 2. *Akysis alfredi*, holotype, ZRC 40714, 25.3 mm SL, Malaysia: Pahang, Tasek Bera, about 300 m east of Fort Iskandar.



Fig. 3. *Akysis clinatus*, holotype, ZRC 47288, 30.5 mm SL, Cambodia: Stung Chhay River, Tok Kong village on road from Phnom Penh to Sihanoukville, 10°56'37.8"N 113°47'47.4"E.

***Akysis ephippifer* Ng & Kottelat, 1998**

J. Nat. Hist. 32: 1078, Figs. 4h, 11 & 13f.

Paratypes: ZRC 40713, 6 ex., 18.1–24.5 mm SL, Cambodia: road from Phnom Penh to Sihanoukville, km 170, coll. F. d'Aubenton, 22 Mar.1964.

Remarks: Holotype in MNHN. Additional paratypes in CMK and MNHN.

Current name: *Akysis ephippifer*

***Akysis fuscus* Ng & Kottelat, 1996**

Ichthyol. Explor. Freshwaters 7: 20, Fig. 1.

Paratypes: ZRC 38840, 4 ex., 26.1–28.8 mm SL, Borneo: Kalimantan Barat, Kapuas basin, Danau Sentarum area, Sungai Hulu Leboyan at Keluwin, coll. M. Kottelat et al., 11 Jun.1995.

Remarks: Holotype in MZB. Additional paratypes in CMK and MZB.

Current name: *Pseudobagarius fuscus*

***Akysis hendricksoni* Alfred, 1966**

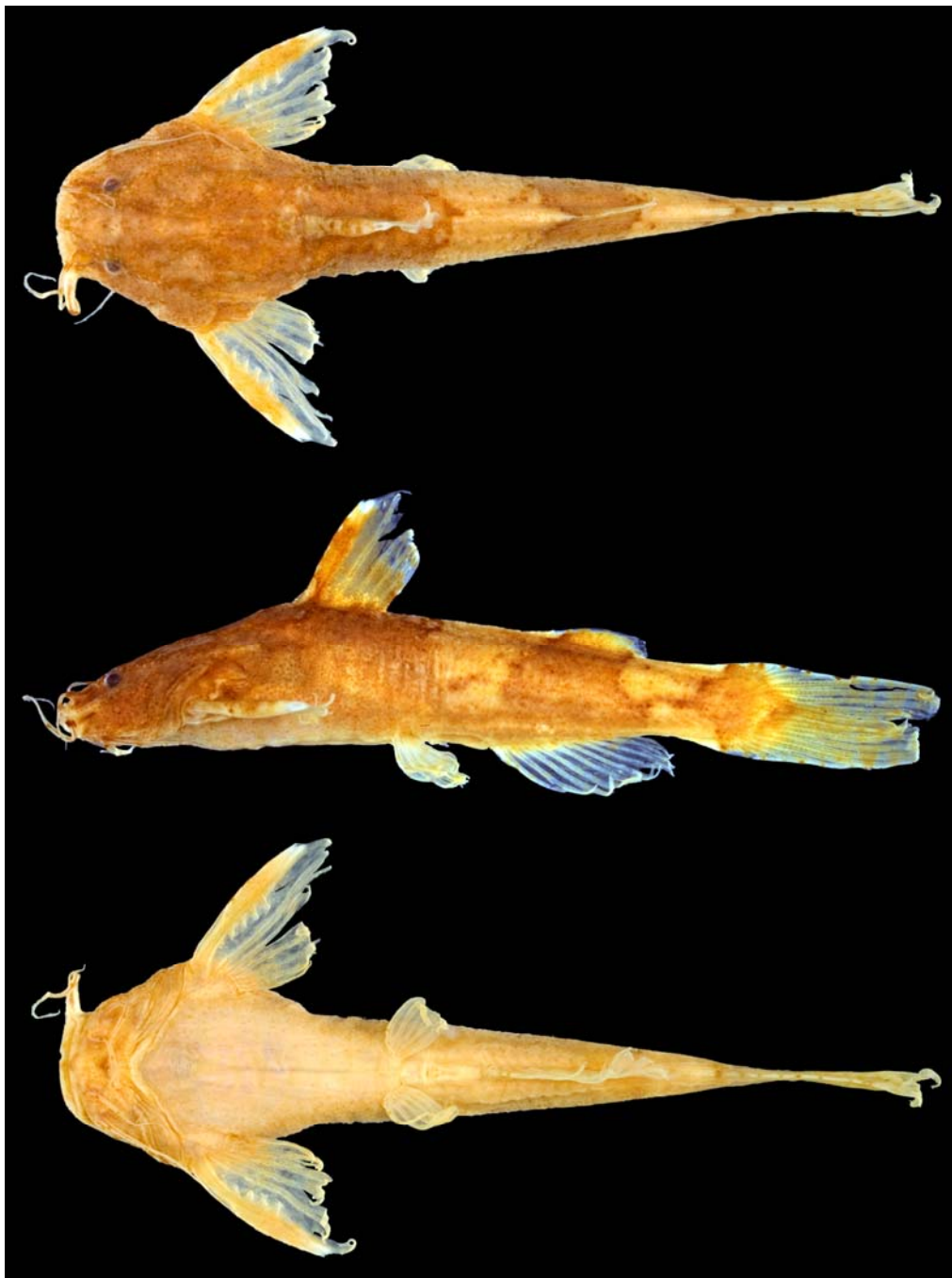


Fig. 4. *Akysis hendricksoni*, holotype, ZRC 1414, 23.3 mm SL, Malaysia: Terengganu, Sungai Terengganu at Kuala Brang.

Copeia 1966: 467, Fig. 1.

Holotype: ZRC 1414, 23.3 mm SL, Malaysia: Terengganu, Sungai Terengganu at Kuala Brang, coll. J. R. Hendrickson, T. Selvarajah & E. R. Alfred, 8 Jul.1958 (**Fig. 4**).

Paratype: ZRC 1416, 1 ex., 24.5 mm SL, data as for holotype.

Remarks: Additional paratype in BMNH.

Current name: *Akysis hendricksoni*

Akysis heterurus Ng, 1996



Fig. 5. *Akysis heterurus*, holotype, ZRC 34194, 18.9 mm SL, Sumatra: Jambi Province, Sungai Alai at 19.5 km Muara Bungo–Muara Tebo road.

Raffles Bull. Zool. 44: 4, Figs. 1 & 2.

Holotype: ZRC 34194, 18.9 mm SL, Sumatra: Jambi Province, Sungai Alai at 19.5 km Muara Bungo–Muara Tebo road, coll. S. H. Tan & H. H. Ng, 22 Jun.1995 (**Fig. 5**).

Paratypes: ZRC 39248, 7 ex., 18.4–26.1 mm SL, data as for holotype.

Current name: *Akysis heterurus*

***Akysis inermis* Ng & Kottelat, 2000**



Fig. 6. *Akysis inermis*, holotype, ZRC 45401, 34.9 mm SL; Laos: Attapeu Province, unnamed creek entering Xe Kaman from the north at proposed Xe Kaman dam site, 14°57'40"N 107°9'16"E.

J. S. Asian Nat. Hist. 5: 8, Fig. 1.

Holotype: ZRC 45401, 34.9 mm SL; Laos: Attapeu Province, unnamed creek entering Xe Kaman from the north at proposed Xe Kaman dam site, 14°57'40"N 107°9'16"E; coll. M. Kottelat et al., 21 May.1999 (**Fig. 6**).

Paratypes: ZRC 45402, 3 ex., 31.1-35.2 mm SL, data as for holotype.

Remarks: Additional paratypes in CMK and LARRI.

Current name: *Pseudobagarius inermis*

***Akysis microps* Ng & Tan, 1999**



Fig. 7. *Akysis microps*, holotype, ZRC 42596, male, 27.8 mm SL, Malaysia: Johor, Endau drainage, Sungai Kahang and tributary ca. 44.4 km from Mersing turnoff to Kluang, just before side road to Endau Rompin National Park, km 96 from Mersing to Batu Pahat, 2°3'55.8"N 103°31'34.8"E.

Zool. Studies 38: 359, Figs. 5, 6a, & 7.

Holotype: ZRC 42596, male, 27.8 mm SL, Malaysia: Johor, Endau drainage, Sungai Kahang and tributary ca. 44.4 km from Mersing turnoff to Kluang, just before side road to Endau Rompin National Park, km 96 from Mersing to Batu Pahat, 2°3'55.8"N 103°31'34.8"E, coll. H. H. Tan et al., 11 Mar.1998 (**Fig. 7**).

Paratypes: ZRC 42597, 4 males, 2 females, 20.2–27.0 mm SL, data as for holotype. ZRC 42599, 3 males, 2 females, 22.8–28.8 mm SL, Malaysia: Johor, Endau drainage, Sungai Kahang and tributary ca. 44.4 km from Mersing turnoff to Kluang, just before side road to Endau Rompin National Park, km 96 from Mersing to Batu Pahat, 2°3'55.8"N 103°31'34.8"E, coll. H. H. Tan et al., 24 Mar.1998.

Remarks: Additional paratypes in BMNH, CAS, CMK, and MZUSP.

Current name: *Akysis microps*

***Akysis pulvinatus* Ng, 2007**

Zootaxa 1608: 52, Fig. 1.

Paratypes: ZRC 51009, 3 ex., 21.7–26.6 mm SL; Thailand; Ranong province, stream draining into Andaman Sea upstream of Kapoe, 9°34'14.0"N 98°41'40.4"E; J. Bohlen & V. Šlechtová, 5 Apr.2007.

Remarks: Holotype and additional paratypes in UMMZ.

Current name: *Akysis pulvinatus*

***Akysis recavus* Ng & Kottelat, 1998**

J. Nat. Hist. 32: 1090, Figs. 4l, 13i, 16 & 17a.

Holotype: ZRC 40716, 15.2 mm SL, Thailand: western Chao Phraya basin, coll. K. Kubota et al., Apr.1995 (**Fig. 8**).

Paratypes: ZRC 40717, 2 ex., 13.5–15.8 mm SL, data as for holotype.

Remarks: Additional paratypes in CMK and UMMZ.

Current name: *Akysis recavus*

***Akysis similis* Ng & Kottelat, 1998**

J. Nat. Hist. 32: 1074, Figs. 4e, 9 & 13c.

Paratypes: ZRC 40718, 5 ex., 24.8–33.9 mm SL, Vietnam: Chau Doc River, 7 km upstream from Chau Doc, coll. R. E. Arden & O. K. Minh, 18 Oct.1974.

Remarks: Holotype and additional paratypes in UMMZ.

Current name: *Pseudobagarius similis*

***Akysis subtilis* Ng & Kottelat, 1998**

J. Nat. Hist. 32: 1076, Figs. 4e, 10 & 13g.

Paratype: ZRC 40730, 1 ex., 35.1 mm SL, Thailand: Nakhon Phanom, Mekong River, 4 km downstream from Nakhon Phanom, coll. Y Dhammigbavon & S Sairaj, 5 Aug.1975.

Remarks: Holotype and additional paratypes in UMMZ.

Current name: *Pseudobagarius subtilis*



Fig. 8. *Akysis recavus*, holotype, ZRC 40716, 15.2 mm SL, Thailand: western Chao Phraya basin.

Akysis varius Ng & Kottelat, 1998



Fig. 9. *Akysis varius*, holotype, ZRC 41015, 30.8 mm SL, Laos: Khammouan Province, Xe Bangfai about 3 km upriver of Ban Pakphanang.

J. Nat. Hist. 32: 1093, Figs. 4m, 13k, 17b & 18.

Holotype: ZRC 41015, 30.8 mm SL, Laos: Khammouan Province, Xe Bangfai about 3 km upriver of Ban Pakphanang, coll. M. Kottelat et al., 15 Mar.1996 (**Fig. 9**).

Remarks: Additional paratypes in CMK and USNM.

Current name: *Akysis varius*

Akysis vespa Ng & Kottelat, 2004



Fig. 10. *Akysis vespa*, holotype, ZRC 46423, 30.0 mm SL, Myanmar: Kayin State, stream “Chon Son” between Kyondaw and Phadaw, about 20 km NW of Payathouzu (at border with Thailand), 15°25'N 98°15'E.

Ichthyol. Explor. Freshwaters 15: 194, Figs. 1–3.

Holotype: ZRC 46423, 30.0 mm SL, Myanmar: Kayin State, stream “Chon Son” between Kyondaw and Phadaw, about 20 km NW of Payathouzu (at border with Thailand), 15°25'N 98°15'E, coll. K. Kubota, Dec.2002 (**Fig. 10**).

Paratypes: ZRC 49155, 4 ex., 16.4–28.9 mm SL, Myanmar: Kayin State, stream “Chon Son” between Kyondaw and Phadaw, about 20 km NW of Payathouzu (at border with Thailand), 15°25'N 98°15'E, coll. K. Kubota, 1 June 2003.

Remarks: Additional paratypes in CMK.

Current name: *Akysis vespa*

Parakysis grandis Ng & Lim, 1995



Fig. 11. *Parakysis grandis*, holotype, ZRC 39111a, 27.8 mm SL, Sumatra: Riau Province, small stream with grassy banks near Pangkalankasai, 43 km south of Rengat.

Ichthyol. Explor. Freshwaters 6: 260, Fig. 7.

Holotype: ZRC 39111a, 27.8 mm SL, Sumatra: Riau Province, small stream with grassy banks near Pangkalankasai, 43 km south of Rengat, coll. P. K. L. Ng et al., 15 Jun.1995 (**Fig. 11**).

Paratypes: ZRC 39111b, 3 ex., 19.2–27.0 mm SL, data as for holotype. ZRC 39178, 1 ex., 29.3 mm SL, Sumatra: Jambi Province, Sungai Alai at 19.5 km on Muara Bungo–Muara Tebo road, coll. S. H. Tan & H. H. Ng, 22 Jun.1995. ZRC 38632, 3 ex., 21.8–24.5 mm SL, Sumatra: Jambi Province, Sungai Alai at 28 km Muara Bungo–Muara Tebo road, coll. T. Sim, 2 Jun.1994. ZRC 31458, 2 ex., 19.0–23.5 mm SL, Sumatra: Lingga Archipelago, Pulau Lingga, Daik, coll. K. Lim, 28 Mar.1993.

Remarks: According to the original description, both the holotype and the single paratype lot collected from the type locality at the same time were assigned identical catalogue numbers (ZRC 39111). We follow Eschmeyer (2006) in assigning the number ZRC 39111a to the holotype and ZRC 39111b to the paratype lot. Additional paratypes in BMNH, CMK and CAS-SU.

Current name: *Parakysis grandis*

***Parakysis longirostris* Ng & Lim, 1995**



Fig. 12. ***Parakysis longirostris***, holotype, ZRC 34491, 45.7 mm SL, Singapore: Nee Soon swamp forest.

Ichthyol. Explor. Freshwaters 6: 262, Fig. 8.

Holotype: ZRC 34491, 45.7 mm SL, Singapore: Nee Soon swamp forest, coll. P. K. L. Ng et al., 23 Aug.1992.

Paratypes: ZRC 34492–34497, 6 ex., 23.3–42.4 mm SL, data as for holotype. ZRC 10003–10006, 4 ex., 38.9–45.1 mm SL), Singapore: Nee Soon swamp forest, coll. P. Yap & P. K. L. Ng, 28 Dec.1989. ZRC 12163–12167, 5 ex., 28.6–37.5 mm SL, Singapore: Nee Soon swamp forest, coll. K. Yong & K. Lim, 30 Mar.1990. ZRC 23031–23033, 3 ex., 30.2–35.6 mm SL,

Singapore: Nee Soon swamp forest, coll. P. G. Lee, 9 Feb.1992. ZRC 38249, 1 ex., 37.6 mm SL, Singapore: Nee Soon swamp forest, coll. K. Lim, 20 Jun.1994. ZRC 37733, 2 ex., 32.1 mm SL, Singapore: streams off Lorong Banir, coll. K. Lim & J. B. Tay, 16 Jun.1994.

Remarks: Additional paratype in CMK.

Current name: *Parakysis longirostris*

***Parakysis notialis* Ng & Kottelat, 2003**

Ichthyol. Res. 50: 48, Figs. 1, 2a & 3a.

Paratype: ZRC 46951, 1 immature male, 16.6 mm SL, Borneo: Kalimantan Selatan, Barito basin, area of Tamiyang Layang, 2°1'S 115°7'E, coll. T. Idei, 7 Sep.2000.

Remarks: Holotype in MZB. Additional paratypes in CMK.

Current name: *Parakysis notialis*

***Parakysis verrucosus* Herre, 1940**

Bull. Raffles Mus. 16: 12, Pl. 6.

Paratype (?): ZRC 1066 [ZRC 341: 23.9 mm SL fide Ng & Lim, 1995: 264] (1ex., 25.7 mm SL, 32.4 mm TL), Malaysia: Johor, Kota Tinggi, Mawai District, coll. A. W. C. T. Herre, 27 February 1937.

Remarks: *Parakysis verrucosus* was described from a holotype (deposited in CAS-SU) and ten paratypes. All ten paratypes appear to have been originally deposited in the CAS-SU collection (CAS-SU 33010), with two subsequently transferred to the BMNH (as BMNH 1938.12.1.147–148). There is thus reason to doubt the status of ZRC 1066 as a paratype of *P. verrucosus*; it is likely that ZRC 1066, collected with the type series, was material given to the Raffles Museum by Herre, but was never used in the original description. However, we cannot be absolutely certain of this, since the specimen in ZRC 1066 falls within the size range as reported for the types and queries to the relevant museums (BMNH, CAS) have yielded no further information that may resolve this issue. Therefore, we include ZRC 1066 in the catalogue of types, but note that it is highly unlikely to be one. Three more specimens from Borneo (CAS-SU 33011) were mentioned in the original description, but were not explicitly listed as types. We regard the indication of CAS-SU 33011 as paratypes of *P. verrucosus* by Eschmeyer (2006) to be in error (CAS-SU 33011 has subsequently been identified as paratypes of *P. grandis* by Ng & Lim, 1995). There is some error in the listing of ZRC 341 as paratypes of *P. verrucosus* by Ng & Lim (1995). The number of specimens in the lot and size correspond to ZRC 1066 (as indicated in Alfred, 1970), and ZRC 341 actually contains 5 non-type specimens of *P. verrucosus* (15.0–23.4 mm SL).

Current name: *Parakysis verrucosus* (emendation of the gender of the specific epithet as discussed in Ng & Lim, 1995)

Amblycipitidae

***Amblyceps foratum* Ng & Kottelat, 2000**

Ichthyol. Explor. Freshwaters 11: 338, Fig. 4.

Holotype: ZRC 43718, 63.9 mm SL, Malaysia: Terengganu, Sungai Brang just outside Sekayu Waterfall Park, 4°57'51"N, 102°57'46"E, coll. P. K. L. Ng et al., 16 May.1995 (**Fig. 13**).

Paratypes: ZRC 38733, 14 ex., 19.8–54.1 mm SL, data as for holotype. ZRC 23533–23535, 3 ex., 10.539.3 mm SL, Malaysia: Terengganu, Sungai Brang just outside Sekayu Waterfall Park, 4°57'51"N, 102°57'46"E, coll. P. K. L. Ng et al., 18 Mar.1992. ZRC 24511, 1 ex., 32.0 mm SL, Malaysia: Terengganu, Sungai Brang just outside Sekayu Waterfall Park, 4°57'51"N, 102°57'46"E, coll. T. H. T. Tan & D. S. L. Chung, 3–5 Aug.1992. ZRC 21726–21729, 4 ex., 12.6–69.0 mm SL, Malaysia: Terengganu, Sekayu Waterfall Park, coll. P. K. L. Ng et al., 18



Fig. 13. *Amblyceps foratum*, holotype, ZRC 43718, 63.9 mm SL, Malaysia: Terengganu, Sungai Brang just outside Sekayu Waterfall Park, 4°57'51"N, 102°57'46"E.

Mar.1992. ZRC 40239, 1 ex., 54.3 mm SL, Malaysia: Terengganu, Sekayu Waterfall Park, coll. P. K. L. Ng et al., 16 May.1995. ZRC 41876, 8 ex., 26.5–54.7 mm SL, Malaysia: Terengganu, Sekayu Waterfall Park, coll. H. H. Ng et al., Oct.1997. ZRC 25299, 1 ex., 41.0 mm SL, Malaysia: Terengganu, Ulu Besut, Sungai Kemia, 1 km after Kampung Keruak, coll. P. K. L. Ng et al., 20 Mar.1992. ZRC 41912, 1 ex., 42.4 mm SL, Malaysia: Terengganu, ditch from swamp in Sekayu Waterfall Park, coll. H. H. Ng et al., Oct.1997. ZRC 39534, 2 ex., 25.5–34.3 mm SL, Malaysia: Perak, 11 km before Gerik, tributary of Sungai Kulim, coll. H. H. Tan et al., 19 Nov.1995. ZRC 39549, 1 ex., 21.9 mm SL, Malaysia: Perak, 2 km after Raban, stream feeding Lake Chenderoh, coll. H. H. Tan et al., 19 Nov.1995. ZRC 39974, 14 ex., 20.3–61.7 mm SL, Malaysia: Perak, tributary of Sungai Korbu, 14.5 km from main road to Jalong area, coll. H. H. Tan et al., 17 Nov.1995. ZRC 41061, 2 ex., 21.0–48.2 mm SL, Malaysia: Perak, Sungai Kenderong at Gerik, 5°25'28.5"N 101°7'39.0"E, coll. H. H. Ng et al., 17 Feb.1997. ZRC 41075, 4 ex., 13.5–40.6 mm SL, Malaysia: Perak, Sungai Lebey about 16 km from Gerik on Gerik–Kota Bahru road, 5°27'33.3"N 101°13'26.9"E), coll. H. H. Ng et al., 17 Feb.1997. ZRC 41098, 3 ex., 28.2–55.8 mm SL, Malaysia: Perlis, stream at about 3 km after UUM on Sintok–Padang Senai road, 6°27'31.7"N 100°32'53.9"E, coll. H. H. Ng et al., 19 Feb.1997. ZRC 35764–35768, 5 ex., 31.9–41.1 mm SL, Thailand: Trat Province, Khlong Fit at Ban Kraduk Chang, Trat–Bo Rai road 3157, about 1-2 km after junction with road 3271, 12°28'N 102°38'E, coll. M. Kottelat et al., 3 Dec.1993. ZRC 35971–35974, 4 ex., 25.8–32.7

mm SL, Thailand: Chantaburi Province, about 1 km on road to Nam Tok Phliu after leaving Chantaburi–Trat highway, 13°32'N 102°11'E, coll. M. Kottelat et al., 2 Dec.1993. ZRC 40816, 2 ex., 38.7–47.2 mm SL, Thailand: Chantaburi Province, Pong Nam Rong District, Klong Nam Ron stream at ca. 54 km north of Chantaburi, 12°54'44.3"N 102°22'16.2"E, coll. S. H. Tan et al., 14 Jan.1997. ZRC 40827, 10 ex., 28.3–64.2 mm SL, Thailand: Chantaburi Province, Klong Pheet stream at about 3.5 km from Trat, 12°28'4.5"N 102°37'7.1"E, coll. H. H. Tan et al., 14 Jan.1997.

Remarks: Additional paratypes in CMK.

Current name: *Amblyceps foratum*

***Amblyceps mucronatum* Ng & Kottelat, 2000**



Fig. 14. *Amblyceps mucronatum*, holotype, ZRC 41323, 42.9 mm SL, Thailand: Loei Province, Mekong River basin, Huang River tributary at 17°16'0.9"N, 101°8'29.2"E.

Ichthyol. Explor. Freshwaters 11: 340, Fig. 6.

Holotype: ZRC 41323, 42.9 mm SL, Thailand: Loei Province, Mekong River basin, Huang River tributary at 17°16'0.9"N, 101°8'29.2"E, coll. S. H. Tan & N. Sivasothi, 21 Mar.1996 (**Fig. 14**).

Remarks: Paratypes in CMK and USNM.

Current name: *Amblyceps mucronatum*

***Amblyceps platycephalus* Ng & Kottelat, 2000**



Fig. 15. ***Amblyceps platycephalus***, holotype, ZRC 42745, 60.2 mm SL, Thailand: Mae Hong Son Province, Nam Mae Pai basin, Nam Mae Sa-Nga at Ban Yang Top Sole, immediately downstream of Nam Tok Pa Sua, 19°29'0"N 97°57'50"E.

Ichthyol. Explor. Freshwaters 11: 343, Fig. 8.

Holotype: ZRC 42745, 60.2 mm SL, Thailand: Mae Hong Son Province, Nam Mae Pai basin, Nam Mae Sa-Nga at Ban Yang Top Sole, immediately downstream of Nam Tok Pa Sua, 19°29'0"N 97°57'50"E, coll. M. Kottelat & K. Kubota, 10 Apr.1998 (**Fig. 15**).

Current name: *Amblyceps platycephalus*

***Amblyceps variegatum* Ng & Kottelat, 2000**



Fig. 16. ***Amblyceps variegatum***, holotype, ZRC 43719, 62.9 mm SL, Thailand: Kanchanaburi Province, Mae Nam Khwae Noi basin, Nam Khung, upstream of Ban Huai Pak Khung, riffles between second ford and reservoir, 14°37'20"N 98°31'24"E.

Ichthyol. Explor. Freshwaters 11: 345, Fig. 10.

Holotype: ZRC 43719, 62.9 mm SL, Thailand: Kanchanaburi Province, Mae Nam Khwae Noi basin, Nam Khung, upstream of Ban Huai Pak Khung, riffles between second ford and reservoir, 14°37'20"N 98°31'24"E, coll. M. Kottelat & K. Kubota, 3 Apr.1998 (**Fig. 16**).

Remarks: Additional paratypes in CMK.

Current name: *Amblyceps variegatum*

Bagridae

***Bagrus hoevenii* Bleeker, 1846**



Fig. 17. ***Bagrus hoevenii***, neotype, ZRC 37472, 116 mm SL, Malaysia: Johor, Sungai Muar at Kampung Bukit Kebong.

Natuur. Geneesk. Arch. Neerl.-Ind. 3: 154.

Neotype: ZRC 37472, 116 mm SL, Malaysia: Johor, Sungai Muar at Kampung Bukit Kebong, coll. M. Kottelat & K. K. P. Lim, 25 Jul.1992 (**Fig. 17**).

Remarks: Neotype designation proposed by Kottelat et al. (1994), and established by Opinion 1840 of the ICZN.

Current name: *Hemibagrus hoevenii*

***Batasio feruminatus* Ng & Kottelat, 2007**



Fig. 18. *Batasio feruminatus*, holotype, ZRC 50716, 57.9 mm SL, Myanmar: Ataran drainage, Kayin State, stream “Chon Son” between Kyondaw and Phadaw, about 20 km NW of Payathonzu (at border with Thailand), 15°25'N 98°15'E.

Ichthyol. Explor. Freshwaters 18: 295, Fig. 7.

Holotype: ZRC 50716, 57.9 mm SL, Myanmar: Ataran drainage, Kayin State, stream “Chon Son” between Kyondaw and Phadaw, about 20 km NW of Payathonzu (at border with Thailand), 15°25'N 98°15'E, coll. K. Kubota, Dec.2002 (**Fig. 18**).

Remarks: Additional paratypes in CMK.

Current name: *Batasio feruminatus*

***Batasio spilurus* Ng, 2006**



Fig. 19. ***Batasio spilurus***, holotype, ZRC 49133, 42.0 mm SL, India: Assam, Dibrugarh district, 27°29'N 94°54'E (coordinates approximate).

J. Fish Biol. 68(Suppl. A): 110, Fig. 5.

Holotype: ZRC 49133, 42.0 mm SL, India: Assam, Dibrugarh district, 27°29'N 94°54'E (coordinates approximate), coll. A. A. Rao, Jul.2001 (**Fig. 19**).

Paratype: ZRC 50301, 1 ex., 40.5 mm SL, data as for holotype.

Current name: *Batasio spilurus*

***Batasio tigrinus* Ng & Kottelat, 2001**



Fig. 20. ***Batasio tigrinus***, holotype, ZRC 40624, 62.1 mm SL, Thailand: Kanchanaburi Province, Mae Nam Khwae Noi basin, Huai Lia, km 49 on road from Thon Pha Phun to Sangkhla Buri, 15°4'25"N 98°33'51"E.

Rev. Suisse Zool. 108: 504, Fig. 6.

Holotype: ZRC 40624, 62.1 mm SL, Thailand: Kanchanaburi Province, Mae Nam Khwae Noi basin, Huai Lia, km 49 on road from Thon Pha Phun to Sangkhla Buri, 15°4'25"N 98°33'51"E, coll. H. H. Tan & H. H. Ng, 28 Jul.1999 (**Fig. 20**).

Paratype: ZRC 40623, 1 ex., 62.0 mm SL, data as for holotype.

Remarks: Additional paratypes in CAS and CMK.

Current name: *Batasio tigrinus*

***Hemibagrus chrysops* Ng & Dodson, 1999**



Fig. 21. *Hemibagrus chrysops*, holotype, ZRC 42653, 209.7 mm SL, Borneo: Sarawak, Serian wet market, from Sungai Sadong.

Raffles Bull. Zool. 47: 48, Figs. 1, 2a & 3c–d.

Holotype: ZRC 42653, 209.7 mm SL, Borneo: Sarawak, Serian wet market, from Sungai Sadong, coll. H. H. Tan, 31 Aug.–5 Sep.1996 (**Fig. 21**).

Paratypes: ZRC 40489, 1 ex., 156.0 mm SL, data as for holotype. ZRC 23008–23014, 7 ex., 172.0–210.7 mm SL, Borneo: Sarawak, Rajang River at Sibu, coll. J. Dodson, 25–28 Jun.1992. ZRC 39518, 18 ex., 93.2–171.0 mm SL, Borneo: Sarawak, Serian, market near Sungai Gadong, coll. H. H. Tan et al., 5 Sep.1995.

Current name: *Hemibagrus chrysops*

***Hemibagrus furcatus* Ng, Martin-Smith & Ng, 2000**

Raffles Bull. Zool. 48: 66, Figs. 1, 2a & 3.

Paratypes: ZRC 40523, 2 males, 93.1–96.6 mm SL, Borneo: Sabah, Lahad Datu District, Danum Valley Conservation Area, Sungai Segama in front of Danum Valley Field Centre, 4°57'42.5"N, 117°48'21.6"E, coll. H. H. Tan & Y. Y. Goh, 1 Oct.1996. ZRC 40524, 1 male, 128.0 mm SL, Borneo: Sabah, Lahad Datu District, Danum Valley Conservation Area, a small tributary of Sungai Bole, about 500 m into logging trail 93, 4°58'17.8"N 117°51'48.0"E, coll. H. H. Tan & Y. Y. Goh, 2 Oct.1996. ZRC 40525, 2 females, 128.6–150.0 mm SL, Borneo: Sabah, Lahad Datu District, Danum Valley Conservation Area, stream at km 113 on main line west after turnoff to Borneo Rainforest Lodge, 5°0'37.6"N 117°31'43.9"E, coll. H. H. Tan & Y. Y. Goh, 3 Oct.1996. ZRC 40526, 1 male, 116.7 mm SL, 3 females, 115.3–138.7 mm SL, Borneo: Sabahm Lahad Datu District, Danum Valley Conservation Area, Cabin Stream Right km 50 on road to Danum Valley Field Centre, draining from Bukit Rafflesia, 4°59'8.5"N 117°54'5.1"E, coll. H. H. Tan & Y. Y. Goh, 2 Oct.1996. ZRC 40527, 2 males, 123.6–129.9 mm SL, 4 females, 80.0–111.2 mm SL), Borneo: Sabah, Lahad Datu District, Danum Valley Conservation Area, Sungai Bole Kechil tributary, 4°57'33.5"N 117°51'34.1"E, coll. H. H. Tan & Y. Y. Goh, 2 Oct.1996. ZRC 40528, 2 males, 108.4–120.0 mm SL, Borneo: Sabah, Lahad Datu District, Danum Valley Conservation Area, Sungai Bilong at about 83 km on main line west after turnoff to Borneo Rainforest Lodge, 5°4'26.8"N 117°42'52.3"E, coll. H. H. Tan & Y. Y. Goh, 3 Oct.1996. ZRC 40588, 1 male, 145.0 mm SL, Borneo: Sabah, Lahad Datu District, Danum Valley Conservation Area, Sungai Segama, coll. K. M. Martin-Smith, Nov.1996.

Remarks: Holotype in SBM. Additional paratypes in CAS, CMK and SBM.

Current name: *Hemibagrus furcatus*

***Hemibagrus gracilis* Ng & Ng, 1995**

Raffles Bull. Zool. 43: 136, Figs. 1–3 & 4a.

Holotype: ZRC 21484, 247.0 mm SL, Malaysia: Johor, Ulu Endau, Sungai Jasin, coll. J. Dodson, 4–5 Apr.1992 (**Fig. 22**).

Paratypes: ZRC 21482, 21485–21487, 4 ex., 162.0–214.0 mm SL, data as for holotype. ZRC 8294–8295, 2 ex., 236.0–266.0 mm SL, Malaysia: Pahang, Rompin, Sungai Kinchin (tributary of Sungai Endau), coll. P. K. L. Ng et al., 18 Jun.1989. ZRC 8757, 1 ex., 277.0 mm SL, Malaysia: Pahang, Rompin, Sungai Kinchin (tributary of Sungai Endau), coll. Y. H. Koo et al., 18 Jul.1989. ZRC 8758–8759, 2 ex., 230.0–245.0 mm SL, Pahang, Rompin, Sungai Kinchin (tributary of Sungai Endau), coll. Y. H. Koo et al., 19 Jul.1989. ZRC 8296, 1 ex., 200.0 mm SL, Malaysia: Pahang, Rompin, Sungai Kinchin at confluence with Sungai Selindang, coll. P. K. L. Ng et al., 15 Jun.1989. ZRC 8293, 1 ex., 27.9 mm SL, Malaysia: Pahang, Rompin, Sungai Kinchin at confluence with Sungai Selindang, coll. P. K. L. Ng et al., 13 Jun.1989. ZRC 8726–8728, 3 ex., 182.0–264.0 mm SL), Malaysia: Pahang, Rompin, Sungai Kernam (tributary of Sungai Kinchin), coll. Y. H. Koo et al., 20 Jul.1989. ZRC 8752–8753, 2 ex., 295.0–405.0 mm SL, Malaysia: Pahang-Johor border, Sungai Taku (tributary of Sungai Endau), coll. Y. H. Koo et al., 18 Jul.1989.

Current name: *Hemibagrus gracilis*



Fig. 22. *Hemibagrus gracilis*, holotype, ZRC 21484, 247.0 mm SL, Malaysia: Johor, Ulu Endau, Sungai Jasin.

***Hemibagrus imbrifer* Ng & Ferraris, 2000**

Proc. California Acad. Sci. 52: 126, Fig. 1.

Holotype: ZRC 45406, 186.6 mm SL, Thailand: Tak Province, Salween basin, Mae Nam Moei at Ban Wa Le, 16°17'24"N 98°42'21"E, coll. K. Kubota, Apr.1998 (**Fig. 23**).

Remarks: Paratype in CMK.

Current name: *Hemibagrus imbrifer*

***Hemibagrus spilopterus* Ng & Rainboth, 1999**

Raffles Bull. Zool. 47: 562, Figs. 5, 7a & 8a.

Paratypes: ZRC 43324, 10 ex., 171.7–241.4 mm SL, Cambodia: Phnom Penh, Chompuvon Market, at about 5 km SW of city, coll. H. H. Ng & H. H. Tan, 21–22 May.1999. ZRC 43322, 1 ex., 209.9 mm SL, Cambodia: Phnom Penh, Chipa Ampe Market, across Tonle Sap River, NE of city, coll. H. H. Ng & H. H. Tan, 23 May.1999. ZRC 43323, 1 ex., 309.1 mm SL, Cambodia: Phnom Penh, Central Market, coll. H. H. Ng & H. H. Tan, 23 May.1999.

Remarks. Holotype in UMMZ. Additional paratypes in CAS, CMK and UMMZ.

Current name: *Hemibagrus spilopterus*



Fig. 23. *Hemibagrus imbrifer*, holotype, ZRC 45406, 186.6 mm SL, Thailand: Tak Province, Salween basin, Mae Nam Moei at Ban Wa Le, 16°17'24"N 98°42'21"E.

***Hemibagrus velox* Tan & Ng, 2000**

J. Nat. Hist. 34: 272, Figs. 2–4.

Paratypes: ZRC 40549, 1 ex., 269.0 mm SL, Sumatra: Jambi Province, Kerinci, Sungai Penuh Market, coll. H. H. Tan et al., 10–11 Jun.1996. ZRC 40550, 2 ex., 236.0–249.0 mm SL, Sumatra: Jambi Province, Kerinci, Sungai Penuh Market, coll. H. H. Tan et al., 10–11 Jun.1996. ZRC 41503, 3 ex., 145.2–199.0 mm SL, Sumatra: Jambi Province, Kerinci, Sungai Penuh Market, coll. T. H. T. Tan, 16–23 May.1997. ZRC 41505, 23 ex., 68.7–162.0 mm SL, Sumatra: Sumatera Barat, Sungai Dareh, Pulau Punjung market, coll. H. H. Tan & H. H. Ng, 22 Jul.1997.

Remarks: Holotype in MZB. Additional paratypes in CMK, UMMZ and ZMA.

Current name: *Hemibagrus velox*

***Hyalobagrus flavus* Ng & Kottelat, 1998**

Ichthyol. Explor. Freshwaters 9: 340, Fig. 6.

Paratypes: ZRC 41967, 19 ex., 20.6–35.8 mm SL, Sumatra: Jambi Province, Danau Arang Arang in the vicinity of Muara Kompeh, 1°37'32.0"S 103°47'19.0"E, coll. H. H. Tan et al., 25 Jul.1997. ZRC 41968, 65 ex., 22.2–43.5 mm SL, Sumatra: Jambi Province, Danau Arang Arang (from aquarium fish collectors), coll. H. H. Tan & H. H. Ng, 18 Jul.1997.

Remarks: Holotype in MZB. Additional paratypes in BMNH, CMK, MZB and ZMH.

Current name: *Hyalobagrus flavus*

***Hyalobagrus leiacanthus* Ng & Kottelat, 1998**

Ichthyol. Explor. Freshwaters 9: 341, Fig. 9.

Paratype: ZRC 41965, 1 ex., 29.3 mm SL, Borneo: Kalimantan Tengah, Sungai Barito at Muara Laung, 0°35'34.6"S 114°44'12.3"E, coll. D. Siebert et al., 20–22 Feb.1991.

Remarks: Holotype in MZB. Additional paratypes in BMNH and CMK.

Current name: *Hyalobagrus leiacanthus*

***Leiocassis aculeatus* Ng & Hadiaty, 2005**

Ichthyol. Explor. Freshwaters 16: 84, Fig. 1.

Paratype: ZRC 46416, 1 male, 90.7 mm SL; Sumatra: Aceh province, Sungai Serembaning, Rundang Aceh Selatan, coll. S. Wirjoatmodjo, 20 Feb.1984.

Remarks: Holotype and additional paratypes in MZB.

Current name: *Leiocassis aculeatus*

***Leiocassis chaseni* de Beaufort, 1933**



Fig. 24. *Leiocassis chaseni*, holotype, ZRC 290, 85 mm SL, Malaysia: Pahang, Ulu Jelai.

Bull. Raffles Mus. 8: 34.

Holotype: ZRC 290, 85 mm SL, Malaysia: Pahang, Ulu Jelai, coll. A. D. Machado, Feb.1910.

Remarks: The holotype of *L. chaseni* is in very poor condition, with the head partially disintegrated, and the specimen broken into two (Ng & Lim, 2006). The number F.245 associated with this specimen as indicated in Eschmeyer (2006) is a field number and not a museum accession or catalogue number (Fig. 24).

Current name: *Leiocassis chaseni* is currently considered a junior synonym of *L. poecilopterus* (see Ng & Lim, 2006).

***Leiocassis collinus* Ng & Lim, 2006**

Ichthyol. Explor. Freshwaters 17: 166, Fig. 1.

Holotype: ZRC 46154, 179.0 mm SL, Borneo: Sabah: Danum Valley, Segama River drainage, Sungai Palum Tambun, tributary of Sungai Segama, upstream of Danum Valley Field Center, coll. H. H. Tan & Y. Y. Goh, 1 Oct.1996 (Fig. 25).

Remarks: Paratypes in BMNH, SBM and FMNH.

Current name: *Leiocassis collinus*



Fig. 25. *Leiocassis collinus*, holotype, ZRC 46154, 179.0 mm SL, Borneo: Sabah: Danum Valley, Segama River drainage, Sungai Palum Tambun, tributary of Sungai Segama, upstream of Danum Valley Field Center.

***Leiocassis tenebricus* Ng & Lim, 2006**

Ichthyol. Explor. Freshwaters 17: 169, Fig. 3.

Paratypes: ZRC 46155, 3 ex., 52.9–90.2 mm SL, Borneo: Kalimantan Timur, Kayan River drainage, Sungai Nah, tributary to Kayan River ca. 20 minutes upstream of confluence with Iwan River, 1°57'43.2"N 115°6'35.4"E at 550 m asl, coll. H. H. Tan et al., 27 Nov.1999

Remarks: Holotype in MZB.

Current name: *Leiocassis tenebricus*

***Mystus alasensis* Ng & Hadiaty, 2005**

Ichthyol. Explor. Freshwaters 16: 86, Fig. 3.

Paratype: ZRC 46417, 1 female, 103.5 mm SL; Sumatra: Aceh province, swamp at Suaq Belimbing, coll. S. Wirjoatmodjo, 21 Feb.1999.

Remarks: Holotype and additional paratypes in MZB.

Current name: *Mystus alasensis*

Mystus castaneus Ng, 2002



Fig. 26. *Mystus castaneus*, holotype, ZRC 41848, 121.4 mm SL, Borneo: Sarawak, Serian market, from Sungai Sadong.

Raffles Bull. Zool. 50: 163, Fig. 2.

Holotype: ZRC 41848, 121.4 mm SL, Borneo: Sarawak, Serian market, from Sungai Sadong, coll. H. H. Tan et al., 29–31 Oct.1997 (**Fig. 26**).

Paratypes: ZRC 25997, 1 ex., 129.8 mm SL, Borneo: Sarawak, 99 km from Kuching, Sungai Jaguh after Balai Ringin, coll. P. K. L. Ng & C. Leh, 2 Jul.1992. ZRC 38003, 6 ex., 78.7–121.3 mm SL, Borneo: Sarawak, Marudi market, coll. M. Kottelat & T. H. T. Tan, 18–20 Jun.1994. ZRC 39419, 3 ex., 124.0–134.5 mm SL, Borneo: Sarawak, Serian market, coll. H. H. Tan et al., 5 Sep.1995. ZRC 40487, 8 ex., 86.5–114.1 mm SL, Borneo: Brunei, Tutong District, Sungai Merimbun, outflow from Tasik Merimbun draining into Sungai Tutong, coll. H. H. Tan et al., 16–17 May.1996. ZRC 41854, 1 ex., 91.0 mm SL, Borneo: Sarawak, Balai Ringin, stall near bridge at Sungai Kerang, coll. H. H. Tan et al., 29 Oct.1997. ZRC 42670, 2 ex., 115.0–119.0 mm SL, Borneo: Brunei, Belait District, Sungai Melilas in front of Kampung Melilas, tributary of Sungai Belait, coll. H. H. Tan et al., 8 May.1996. ZRC 3231, 1 ex., 133.8 mm SL, Malaysia: Pahang, Kuala Tahan, Paya Sumpur, coll. D. S. Johnson, 5 Mar.1961. ZRC 27672, 1 ex., 122.8 mm SL, Malaysia: Selangor, Sungai Bernam headworks, coll. P. K. L. Ng et al., 19 Sep.1992. ZRC 28176, 1 ex., 77.6 mm SL, Malaysia: Johor, Kota Tinggi, Sungai Mupor, coll. P. K. L. Ng & K. Lim, 15 Oct.1992. ZRC 38408, 1 ex., 93.9 mm SL, Malaysia: Perak, Krian, stream flowing out of Bukit Merah Reservoir, coll. H. H. Tan et al., 21 Dec.1994. ZRC 43728, 1 ex., 71.9 mm SL, Thailand: Narathiwat Province, Bac Sac, tributary of Mae Nam Sungai Kolok at about 19.5 km west to Waeng at junction from Sungai Kolok to Waeng and Sungai Padi, coll. H. H. Tan et al., 23 Oct.1998. ZRC 42310, 1 ex., 40.7 mm SL, Sumatra: Jambi Province, Sungai Alai at 19.5 km Muara Bungo–Muara Tebo road, 1°28'42"S 102°18'31"E, coll. H. H. Tan et al., 22 Jul.1997.

Remarks: Additional paratypes in CMK, FMNH and ZMA.

Current name: *Mystus castaneus*

***Nanobagrus nebulosus* Ng & Tan, 1999**

Zool. Stud. 38: 350–366, Figs. 3a & 4a.

Holotype: ZRC 42600, male, 34.5 mm SL, Malaysia: Johor, Endau drainage, Sungai Kahang and tributary ca. 44.4 km from Mersing turnoff to Kluang, just before side road to Endau Rompin National Park, km 96 from Mersing to Batu Pahat, 2°3'55.8"N 103°31'34.8"E, coll. H. H. Tan et al., 24 Mar.1998 (**Fig. 27**).

Remarks: Paratypes in FMNH.

Current name: *Nanobagrus nebulosus*

***Nanobagrus stellatus* Tan & Ng, 2000**

J. Nat. Hist. 34: 278, Fig. 5a.

Paratypes: ZRC 42546, 3 ex., 23.2–33.6 mm SL, Sumatra: Jambi Province, Sungai Alai (from aquarium fish collectors), coll. H. H. Tan et al., 14 Jun.1996.

Remarks: Holotype in MZB. Additional paratype in CMK.

Current name: *Nanobagrus stellatus*



Fig. 27. *Nanobagrus nebulosus*, holotype, ZRC 42600, male, 34.5 mm SL, Malaysia: Johor, Endau drainage, Sungai Kahang and tributary ca. 44.4 km from Mersing turnoff to Kluang, just before side road to Endau Rompin National Park, km 96 from Mersing to Batu Pahat, 2°3'55.8"N 103°31'34.8"E.

***Pseudomystus bomboides* Kottelat, 2000**

J. S. Asian Nat. Hist. 5: 77, Fig. 69.

Holotype: ZRC 45426, male, 41.2 mm SL, Laos: Vientiane Province, Mekong basin, confluence of Nam Leuk and Nam Ngong, 18°22'4"N 103°5'27"E, coll. M. Kottelat et al., 24 Feb.1997 (**Fig. 28**).

Paratypes: ZRC 45493, 2 ex., 23.7–31.7 mm SL, data as for holotype.

Remarks: Additional paratypes in CMK and LARRI.

Current name: *Pseudomystus bomboides*



Fig. 28. *Pseudomystus bomboides*, holotype, ZRC 45426, male, 41.2 mm SL, Laos: Vientiane Province, Mekong basin, confluence of Nam Leuk and Nam Ngong, 18°22'4"N 103°5'27"E.

Pseudomystus fumosus Ng & Lim, 2005



Fig. 29. *Pseudomystus fumosus*, holotype, ZRC 3229, male, 73.6 mm SL; Malaysia: Pahang, Taman Negara, Kuala Tahan.

Zootaxa 851: 11, Figs. 2b, 3a & 6.

Holotype: ZRC 3229, male, 73.6 mm SL; Malaysia: Pahang, Taman Negara, Kuala Tahan, coll. J. R. Hendrickson, Jul.–Aug.1954 (**Fig. 29**).

Remarks: Paratype in UMKL (the abbreviation for this institute is given as BIRCUM in the original description).

Current name: *Pseudomystus fumosus*

***Pseudomystus sobrinus* Ng & Freyhof, 2005**

Copeia 2005: 745, Figs. 1–2.

Paratypes: ZRC 49127, 2 ex., 42.6–52.5 mm SL, Vietnam: Phu Yen province, stream about 30 km west of Tuy Hoa, 13°03'08"N 109°05'00"E, coll. J. Freyhof & D. V. Serov, 2 Mar.1999.

Remarks: Holotype in ZFMK. Additional paratypes in UMMZ and ZFMK.

Current name: *Pseudomystus sobrinus*

***Pseudomystus stenogrammus* Ng & Siebert, 2005**

Zootaxa 813: 2, Figs. 1 & 3a.

Paratype: ZRC 46152, 1 male, 80.1 mm SL, Borneo: Kalimantan Tengah, Sungai Laung at Dessa Maruwei, coll. D. Siebert, O. Crimmen & A. H. Tjakrawidjaja, 15–18 Jul.1992.

Remarks: Holotype in MZB. Additional paratypes in BMNH.

Current name: *Pseudomystus stenogrammus*

Clariidae

***Clarias anfractus* Ng, 1999**

Raffles Bull. Zool. 47: 18, Figs. 1a, 2a, 3a & 4a.

Holotype: ZRC 42598, 176.4 mm SL, Borneo: eastern Sabah, Danum Valley, Segama basin, forest stream (tributary of Sungai Segama) 600 m into conservation area, coll. H. H. Tan & Y. Y. Goh, 4 Oct.1996 (**Fig. 30**).

Paratypes: ZRC 43392, 2 ex., 140.4–151.9 mm SL, data as for holotype.

Remarks: Additional paratypes in FMNH.

Current name: *Clarias anfractus*

***Clarias batu* Lim & Ng, 1999**

Raffles Bull. Zool. Suppl. 6: 158, Figs. 1, 2, 4a, 5a & 7.

Holotype: ZRC 40087, 245.0 mm SL, Malaysia: Pahang, Pulau Tioman, Sungai Baharu, on right side of Tekek–Juara trail (towards Juara), coll. H. H. Ng et al., 28 Jun.1996 (**Fig. 31**).

Paratypes: ZRC 40088, 8 ex., 101.3–228.0 mm SL, data as for holotype. ZRC 40089, 9 ex., 179.0–305.0 mm SL, Malaysia: Pahang, Pulau Tioman, Sungai Nipah, coll. H. H. Ng et al., 28 Jun.1996.

Remarks: Additional paratypes in BMNH, CAS, CMK, RMNH and UKML.

Current name: *Clarias batu*

***Clarias intermedius* Teugels, Sudarto & Pouyaud, 2001**

Cybum 25: 86, Fig. 5.

Paratypes: ZRC 46110–46113, 1 male, 3 females, 176.0–195.0 mm SL, Borneo: Kalimantan Tengah, Kereng Bengkirai, coll. W. Hadie, Aug.1999.

Remarks: Holotype in MZB. Additional paratypes in MNHN and MRAC.

Current name: *Clarias intermedius*

***Clarias kapuasensis* Sudarto, Teugels & Pouyaud, 2003**

Cybum 27: 156, Figs. 2A–B.

Paratypes: ZRC 47146, 9 ex., 178–260 mm SL, Borneo: Kalimantan Barat, Nanga Pinoh, in peat swamp bordering Sungai Melawi, coll. Sudarto & L. Pouyaud, Mar.2000. ZRC 47147, 4 ex., 220–260 mm SL, Borneo: Kalimantan Barat, Sintang, in peat swamp along Kapuas River, coll. Sudarto & L. Pouyaud, Mar.2000.

Remarks: Holotype in MZB. Additional paratypes in MNHN and MRAC.

Current name: *Clarias kapuasensis*



Fig. 30. *Clarias anfractus*, holotype, ZRC 42598, 176.4 mm SL, Borneo: eastern Sabah, Danum Valley, Segama basin, forest stream (tributary of Sungai Segama) 600 m into conservation area.



Fig. 31. *Clarias batu*, holotype, ZRC 40087, male: 245.0 mm SL, Malaysia: Pahang, Pulau Tioman, Sungai Baharu, on right side of Tekek–Juara trail (towards Juara).

***Clarias microstomus* Ng, 2001**

Zool. Stud. 40: 158, Fig. 1.

Paratypes: ZRC 45776, 8 ex., 96.1–130.0 mm SL, Borneo: Kalimantan Timur, Kayan basin, Ladang near Sungai Pingai, 2°0'9.6"N 115°9'13.8"E, coll. H. H. Tan & D. Wowor, 25 Nov.1999.

Remarks: Holotype in MZB. Additional paratypes in RMNH.

Current name: *Clarias microstomus*

***Clarias nigricans* Ng, 2003**

Raffles Bull. Zool. 51: 393, Figs. 1, 2 & 3a.

Paratypes: ZRC 45590, 2 ex., 197.4–315.1 mm SL, Borneo: Kalimantan Timur, market in Samarinda, coll. H. H. Tan & D. Wowor, 7 Nov.1999.

Remarks: Holotype in MZB. Additional paratypes in ZMA.

Current name: *Clarias nigricans*

***Clarias planiceps* Ng, 1999**

Raffles Bull. Zool. 47: 22, Figs. 4b, 5 & 6.

Paratypes: ZRC 42543, 1 ex., 117.0 mm SL, Borneo: Sarawak, Belakin area, Ulu Sungai Anap, coll. R. Stuebing, 16 Jul.1994. ZRC 37800, 1 ex., 90.0 mm SL, Borneo: Sarawak, Second Division, Lanjak Entimau Wildlife Sanctuary, Sungai Jelian, coll. R. Stuebing, 13 Oct.1993. ZRC 37809, 1 ex., 193.6 mm SL, Borneo: Sarawak, Second Division, Lanjak Entimau Wildlife Sanctuary, Sungai Engkari, coll. R. Stuebing, 14 Aug.1993. ZRC 37820, 1 ex., 144.5 mm SL, Borneo: Sarawak, Second Division, Lanjak Entimau Wildlife Sanctuary, Sungai Brauh, coll. R. Stuebing, 10 Oct.1993. ZRC 45544, 1 ex., 145.0 mm SL, Borneo: Sarawak, Sungai Belakin, coll. R. Stuebing, 16 Jul.1994. ZRC 42545, 1 ex., 246.7 mm SL, Borneo: Sarawak, Kapit River, don. C. Leh, 1996.

Remarks: Holotype in SMK. Additional paratypes in CMK, FMNH, MZB and USNM.

Current name: *Clarias planiceps*

***Clarias pseudoleiacanthus* Sudarto, Teugels & Pouyaud, 2003**

Cybiium 27: 156, Figs. 1A–B.

Paratypes: ZRC 47145, 6 ex., 175–245 mm SL, Borneo: Kalimantan Barat, Satong (peat swamp at about 30 km after Ketapang on road to Sukadana, coll. Sudarto & L. Pouyaud, Mar.2000.

Remarks: Holotype in MZB. Additional paratypes in MNHN and MRAC.

Current name: *Clarias pseudoleiacanthus*

***Clarias pseudonieuhofii* Sudarto, Teugels & Pouyaud, 2004**

Zoological Studies 43: 15, Fig. 3.

Paratypes: ZRC 47411, 4 ex., size unknown, Borneo: Kalimantan Barat, Semitau, near the Danau Sentarum Reserve, upstream Kapuas River, on the road between Sintang and Putussibau, coll. Sudarto & L. Pouyaud, Mar.2000.

Remarks: Holotype in MZB. Additional paratypes in MNHN and MRAC. Although a catalogue number was assigned to the paratypes to be eventually deposited in ZRC, this material has not been received as of November 2007.

Current name: *Clarias pseudonieuhofii*

Clarias sulcatus Ng, 2004



Fig. 32. *Clarias sulcatus*, holotype, ZRC 22665, 180.5 mm SL, Malaysia: Terengganu, Pulau Redang, stream on east slope of west ridge.

Ichthyol. Explor. Freshwaters 15: 290, Figs. 1 & 2a.

Holotype: ZRC 22665, 180.5 mm SL, Malaysia: Terengganu, Pulau Redang, stream on east slope of west ridge, K. Lim et al., 24 Jun.1992 (**Fig. 32**).

Paratypes: ZRC 22666, 1 ex., 207.0 mm SL, data as for holotype. ZRC 22717, 1 ex., 96.5 mm SL, Malaysia: Terengganu, Pulau Redang, stream behind Pasir Panjang on east slope of east ridge, K. Lim et al., 25 Jun.1992.

Current name: *Clarias sulcatus*

***Encheloclarias curtisoma* Ng & Lim, 1993**



Fig. 33. *Encheloclarias curtisoma*, holotype, ZRC 14886, 82.0 mm SL, Malaysia: Selangor, Sabak Bernam, North Selangor peat swamp forest, blackwater stream at 39 km milestone on road to Tanjung Malim from Sungai Besar.

Ichthyol. Explor. Freshwaters 4: 32, Figs. 9–10.

Holotype: ZRC 14886, 82.0 mm SL, Malaysia: Selangor, Sabak Bernam, North Selangor peat swamp forest, blackwater stream at 39 km milestone on road to Tanjung Malim from Sungai Besar, coll. P. K. L. Ng, T. H. T. Tan & K. K. P. Lim, 19 Jun.1991 (**Fig. 33**).

Paratypes: ZRC 14887–14888, 2 ex., 62.5–64.0 mm SL, data as for holotype. ZRC 17356, 1 ex., 46.9 mm SL, Malaysia: Selangor, Sabak Bernam, North Selangor peat swamp forest, blackwater stream at 50 km milestone on road to Tanjung Malim from Sungai Besar, coll. P. K. L. Ng, 14 Sep. 1991. ZRC 29368–29369, 2 ex., 22.3–25.1 mm SL, Malaysia: Selangor, Sabak Bernam, North Selangor peat swamp forest, shallow blackwater stream between 43 and 33 km milestone along Tanjung Malim–Sungai Besar road, coll. P. K. L. Ng & D. G. B. Chia, Jun.1992. ZRC 29367, 1 ex., 59.0 mm SL, Malaysia: Selangor, Sabak Bernam, North

Selangor peat swamp forest, blackwater stream at 39 km milestone on road to Tanjung Malim from Sungai Besar, coll. P. K. L. Ng et al., Sep.1992.

Current name: *Encheloclarias curtisoma*

***Encheloclarias kelioides* Ng & Lim, 1993**



Fig. 34. *Encheloclarias kelioides*, holotype, ZRC 29401, 64.8 mm SL, Malaysia: Pahang, south of Pekan, blackwater stream across road, 69 km stone on road from Mersing to Pekan, near Kuantan.

Ichthyol. Explor. Freshwaters 4: 30, Figs. 7–8.

Holotype: ZRC 29401, 64.8 mm SL, Malaysia: Pahang, south of Pekan, blackwater stream across road, 69 km stone on road from Mersing to Pekan, near Kuantan, coll. M. Kottelat & P. K. L. Ng, 9 Mar.1992 (**Fig. 34**).

Remarks: Paratypes in CAS.

Current name: *Encheloclarias kelioides*

***Encheloclarias velatus* Ng & Tan, 2000**

J. Fish Biol. 57: 536, Fig. 1.

Paratypes: ZRC 44113, 3 ex., 142.0–169.2 mm SL, Sumatra: Jambi, Angso Duo Market, coll. H. H. Tan et al., 26–27 Oct.1999.

Remarks: Holotype in MZB.

Current name: *Encheloclarias velatus*

Horabagridae

***Horabagrus nigricollaris* Pethiyagoda & Kottelat, 1994**

J. South Asian Nat. Hist. 1: 110, Fig. 13.

Paratypes: ZRC 34510–34511, 2 ex., 74.8–130.2 mm SL, India: Kerala, Chalakudy River, 26 km upstream of Chalakudy town near Vettilappara, coll. K. Manamendra-Arachchi, 9 Sep.1993.

Remarks: Holotype in AMS. Additional paratypes in AMS, CMK, WHT and ZSI-SRS.

Current name: *Horabagrus nigricollaris*

Pangasiidae

***Helicophagus leptorhynchus* Ng & Kottelat, 2000**

Raffles Bull. Zool. 48: 55, Figs. 1 & 2a.

Paratypes: ZRC 43590, 4 ex., 117.1–276.8 mm SL, Thailand: Nakhon Phanom Province, market at That Phanom, coll. Y. Y. Goh & Y.-X. Cai, 17 Jun.1998. ZRC 43591, 1 ex., 70.3 mm SL, Thailand: Nakhon Phanom Province, Mekong River at Ban Phaeng, coll. Y. Y. Goh & Y.-X. Cai, 18 Jun.1998.

Remarks: Holotype in USNM. Additional paratypes in CAS, CMK, UMMZ and USNM.

Current name: *Helicophagus leptorhynchus*

Siluridae

***Belodontichthys truncatus* Kottelat & Ng, 1999**

Ichthyol. Explor. Freshwaters 10: 388, Fig. 1.

Paratype: ZRC 43592, 1 ex., 341.0 mm SL, Thailand: Ubon Rachathani Province, market at Phibun Mangsahan, coll. Y. Y. Goh & Y. X. Cai, 16 Jun.1998.

Remarks: Holotype in UMMZ. Additional paratypes in ANSP, CAS, CMK, UMMZ and USNM.

Current name: *Belodontichthys truncatus*

***Kryptopterus geminus* Ng, 2003**

Zootaxa 305: 2, Figs. 1 & 2a.

Paratypes: ZRC 40768, 5 ex., 107.9–115.9 mm SL; Nakhon Phanom, Mekong River drainage, 17°25'N 104°46'E; K. Kubota, 1998.

Remarks: Holotype in UMMZ. Additional paratypes in CAS and UMMZ.

Current name: *Kryptopterus geminus*

***Kryptopterus piperatus* Ng, Wirjoatmodjo & Hadiaty, 2004**

Ichthyol. Explor. Freshwaters 15: 92, Fig. 1.

Paratype: ZRC 46419, 1 ex., 74.3 mm SL, Sumatra: Aceh Selatan, Gunung Leuser National Park, Sungai Lembang in front of camp at Suag Balimbing Research Station, coll. R. K. Hadiaty & A. Mun'im, 4 Sep.1997.

Remarks: Holotype and additional paratypes in MZB.

Current name: *Kryptopterus piperatus*

***Kryptopterus platypogon* Ng, 2004**



Fig. 35. *Kryptopterus platypogon*, holotype, ZRC 45838, male, 176.3 mm SL, Borneo: Sarawak, Rajang basin, market at Sibu, 2°17'18.6"N 111°49'49.2"E.

Zootaxa 398: 2, figs. 1 & 2a.

Holotype: ZRC 45838, male, 176.3 mm SL, Borneo: Sarawak, Rajang basin, market at Sibul, 2°17'18.6"N 111°49'49.2"E, coll. H. H. Tan & Y. Y. Goh, 3–4 Mar.1998 (**Fig. 35**).

Current name: *Kryptopterus platypogon*

***Ompok binotatus* Ng, 2002**

Ichthyol. Explor. Freshwaters 13: 26, Fig. 1.

Paratypes: ZRC 38783, 5 ex., 45.2–71.5 mm SL, Borneo: Kalimantan Barat, Kapuas basin, Sungai Letang near Kampung Kandung Suli, 0°37'42"N 112°15'15"E, coll. M. Kottelat et al., 8 Jun.1995. ZRC 46250, 1 ex., 89.9 mm SL, Borneo: Kalimantan Barat, Kapuas basin, small stream at mouth of Ujunggumbut, 0°49'41.6"N 112°39'57.8"E, coll. Y. Y. Goh, 1996.

Remarks: Holotype in FMNH. Additional paratypes in CMK and FMNH.

Current name: *Ompok binotatus*

***Ompok fumidus* Tan & Ng, 1996**



Fig. 36. *Ompok fumidus*, holotype, : ZRC 15049, 116.2 mm SL, Malaysia: Selangor, Sabak Bernam, north Selangor peat swamp forest, 43 km from Tanjung Malim to Sungai Besar.

Raffles Bull. Zool. 44: 537, Figs. 3 & 4c.

Holotype: ZRC 15049, 116.2 mm SL, Malaysia: Selangor, Sabak Bernam, north Selangor peat swamp forest, 43 km from Tanjung Malim to Sungai Besar, coll. P. K. L. Ng et al., 19 Jun.1991 (**Fig. 36**).

Paratypes: ZRC 15050–15052, 3 ex., 107.9–119.7 mm SL, data as for holotype.

Current name: *Ompok fumidus*

***Ompok platyrhynchus* Ng & Tan, 2004**



Fig. 37. *Ompok platyrhynchus*, holotype, ZRC 48678, male, 78.9 mm SL, Borneo: Brunei Darussalam, Temburong district: Temburong basin, Belalong sub-basin, Sungai Esu, about 15 minutes upstream of Kuala Belalong Field Studies Centre, 04°32'17.9"N 115°09'35.2"E.

Zootaxa 580: 2, Figs. 1 & 2a.

Holotype: ZRC 48678, male, 78.9 mm SL, Borneo: Brunei Darussalam, Temburong district: Temburong basin, Belalong sub-basin, Sungai Esu, about 15 minutes upstream of Kuala Belalong Field Studies Centre, 04°32'17.9"N 115°09'35.2"E, coll. H. H. Tan & K. K. P. Lim, 6 Oct.2001 (**Fig. 37**).

Paratype: ZRC 31807, c&s, 55.0 mm SL, Borneo: Brunei Darussalam, Temburong District, Sungai Belalong at Kuala Belalong Field Study Center, coll. S. C. Choy, 27 Jul.1992

Current name: *Ompok platyrhynchus*

***Ompok rhadinurus* Ng, 2003**



Fig. 38. *Ompok rhadinurus*, holotype, ZRC 14897, 190.8 mm SL, Malaysia: Selangor, Sabak Bernam, North Selangor peat swamp forest, irrigation canal on western boundary.

J. Fish Biol. 62: 1299, Figs. 3 & 5b.

Holotype: ZRC 14897, 190.8 mm SL, Malaysia: Selangor, Sabak Bernam, North Selangor peat swamp forest, irrigation canal on western boundary, coll. P. K. L. Ng et al., 20 Jun.1991 (**Fig. 38**).

Paratypes: ZRC 14898, 1 ex., 193.1 mm SL, data as for holotype. ZRC 15074, 1 ex., 103.5 mm SL), Malaysia: Selangor, Sabak Bernam, North Selangor peat swamp forest, irrigation canal on western boundary, coll. P. K. L. Ng et al., 18 Jun.1991. ZRC 15073, 1 ex., 182.5 mm SL, Malaysia: Selangor, Sabak Bernam, North Selangor peat swamp forest, irrigation canal at Sungai Bernam headworks, coll. P. K. L. Ng et al., 19 Jun.1991. ZRC 24581–24583, 3 ex., 169.2–173.0 mm SL, Malaysia: Selangor, Sabak Bernam, coll. P. K. L. Ng, Jun.1992. ZRC

23293, 1 ex., 139.3 mm SL, Malaysia: Johor, Sungai Labis along Muar–Labis road, coll. K. Lim et al., 26 Jul.1992. ZRC 42755, 1 ex., 97.2 mm SL, Malaysia: Johor, Sungai Kahang, coll. H. H. Tan et al., 1 Apr.1998. ZRC 38665, 2 ex., 124.0–157.8 mm SL, Sumatra: Jambi Province, Sungai Batang Hari near Tanjung Johor, a few km downstream of Jambi, coll. M. Kottelat & H. H. Tan, 5 Jun.1994. ZRC 38990, 8 ex., 149.2–186.1 mm SL, Sumatra: Jambi, Angso Duo Market in Jambi, coll. P. K. L. Ng et al., Jun.1995. ZRC 39006, 4 ex., 140.2–167.8 mm SL, Sumatra: Riau Province, blackwater stream from degraded peat swamp, 6 km to Rengat on Jambi–Rengat road, coll. P. K. L. Ng et al., 13 Jun.1995. ZRC 39033, 3 ex., 134.4–182.4 mm SL, Sumatra: Riau Province, Sungai Bengkwan, tributary of Sungai Indragiri (Batang Kuantan), 4 hr. downstream of Rengat, coll. P. K. L. Ng et al., 14 Jun.1995. ZRC 39149, 1 ex., 158.1 mm SL, Sumatra: Jambi Province, Berbak Nature Reserve, Sungai Air Hitam Dalam, coll. H. H. Ng & S. H. Tan, 16–17 Jun.1995. ZRC 41718, 2 ex., 166.3–179.6 mm SL, Sumatra: Jambi Province, Danau Arang Arang, brown water lake, 1°37'32.0"S, 103°47'19.0"E, coll. H. H. Tan & H. H. Ng, 25 Jul.1997.

Remarks: Additional paratypes in CMK and UMMZ.

Current name: *Ompok rhadinurus*

***Pterocryptis buccata* Ng & Kottelat, 1998**



Fig. 39. *Pterocryptis buccata*, holotype, ZRC 41496, male, 95.6 mm SL, Thailand: Kanchanaburi Province, Amphoe Sai Yok, Mae Khlong basin.

Ichthyol. Res. 45: 394, Figs. 1, 2a & 3a–b.

Holotype: ZRC 41496, male, 95.6 mm SL, Thailand: Kanchanaburi Province, Amphoe Sai Yok, Mae Khlong basin, coll. K. Jarutanin, 17 Jul.1987.

Remarks: Paratypes in CMK.

Current name: *Pterocryptis buccata*

***Pterocryptis crenula* Ng & Freyhof, 2001**



Fig. 40. ***Pterocryptis crenula***, holotype, ZRC 46317, 125.2 mm SL, Vietnam: Quang Ninh Province, Hai Ninh District, torrent at km 5 on road from Bac Phong Sinh to Mong Cai, 21°35'31"N 107°43'52"E.

J. Fish Biol. 59: 630, Fig. 6.

Holotype: ZRC 46317, 125.2 mm SL, Vietnam: Quang Ninh Province, Hai Ninh District, torrent at km 5 on road from Bac Phong Sinh to Mong Cai, 21°35'31"N 107°43'52"E, coll. M. Kottelat, 2 Oct.1998.

Remarks: Paratypes in CMK.

Current name: *Pterocryptis crenula*

***Pterocryptis inusitata* Ng, 1999**



Fig. 41. ***Pterocryptis inusitata***, holotype, ZRC 41455, 173.7 mm SL, Laos: Mekong basin, Nam Theun watershed, Nam Ong at Ban Don.

Ichthyol. Explor. Freshwaters 10: 372, Fig. 1.

Holotype: ZRC 41455, 173.7 mm SL, Laos: Mekong basin, Nam Theun watershed, Nam Ong at Ban Don, coll. P. Vongsay, Oct.1995.

Paratypes: ZRC 43393, 2 ex., 93.9–96.8 mm SL, Laos: Nam Theun watershed, Nam Ngouang at Ban Sensi, coll. T. R. Roberts, 10 Jun.–12 Jul.1995.

Remarks: Additional paratypes in CMK.

Current name: *Pterocryptis inusitata*

***Pterocryptis verecunda* Ng & Freyhof, 2001**

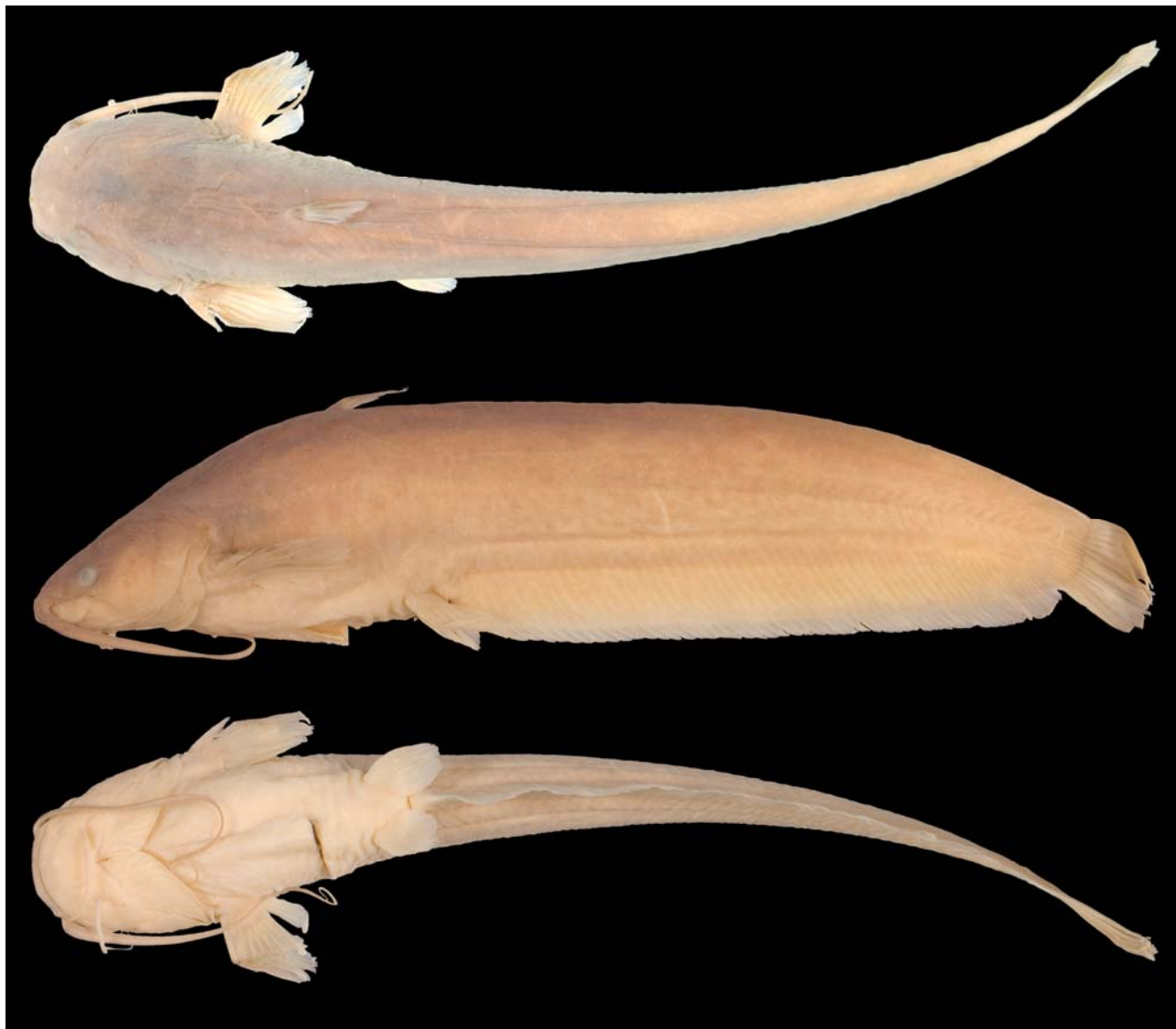


Fig. 42. ***Pterocryptis verecunda***, holotype, ZRC 46316, 131.6 mm SL, Vietnam: Hai Phong Province, Cat Ba Island, stream near eastern entrance of Trung Trang Cave, 20°47'17"N 107°0'4"E.

J. Fish Biol. 59: 636, Fig. 9.

Holotype: ZRC 46316, 131.6 mm SL, Vietnam: Hai Phong Province, Cat Ba Island, stream near eastern entrance of Trung Trang Cave, 20°47'17"N 107°0'4"E, coll. M. Kottelat et al., 26 Sep.1998.

Remarks: Paratypes in CMK.

Current name: *Pterocryptis verecunda*

***Silurichthys gibbiceps* Ng & Ng, 1998**

J. Fish Biol. 52: 301, Figs. 1B, 1J, 2B, 3B & 6.

Paratypes: ZRC 40328, 5 ex., 47.0–75.2 mm SL, Borneo: Kalimantan Tengah, Sungai Barito basin, Sungai Paku-merah, 0°35'10.3"S 115°11'23.9"E, coll. D. Siebert et al., 28 Sep.1995.

Remarks: Holotype in MZB. Additional paratypes in BMNH.

Current name: *Silurichthys gibbiceps*

Silurichthys marmoratus Ng & Ng, 1998



Fig. 43. *Silurichthys marmoratus*, holotype, ZRC 40293, 79.4 mm SL, Borneo: Sarawak, Sungai Sebiris, 13.8 km after Kampung Puteh turnoff towards Lundu, on Sematan–Lundu road, 1°41'32"N 109°47'0.8"E.

J. Fish Biol. 52: 310, Fig. 1E, 1F, 2E, 3E & 11.

Holotype: ZRC 40293, 79.4 mm SL, Borneo: Sarawak, Sungai Sebiris, 13.8 km after Kampung Puteh turnoff towards Lundu, on Sematan–Lundu road, 1°41'32"N 109°47'0.8"E, coll. P. K. L. Ng et al., 1 Sep.1996.

Paratypes: ZRC 39360, 1 ex., 69.0 mm SL, Borneo: Sarawak, Sungai Stinggang next to Kampung Stinggang, coll. H. H. Tan et al., 6 Sep.1995. ZRC 25939–25943, 5 ex., 41.1–61.6 mm SL, Borneo: Sarawak, 99 km from Kuching, Sungai Jaguh after Balai Ringin, coll. M. Kottelat &

K. Lim, 2 Jul.1992. ZRC 39479, 2 ex., 69.3–85.0 mm SL, Borneo: Sarawak, Bau, just outside Gua Kapo (Fairy Caves), coll. H. H. Tan et al., 7 Sep.1995. ZRC 40294, 4 ex., 58.3–82.5 mm SL, Borneo: Sarawak, Serian, Sungai Kuhas tributary, 0.5 km towards Kampung Lanchang, 6.9 km left at Tebelu Tebakang turnoff, 5.8 km into right trail, 1°9'23.1"N 110°29'29.9"E, coll. P. K. L. Ng et al., 31 Aug.1996. ZRC 40295, 2 ex., 91.6–103.6 mm SL, Borneo: Sarawak, Serian wet market, coll. P. K. L. Ng et al., 5 Sep.1996.

Remarks: Additional paratypes in CMK.

Current name: *Silurichthys marmoratus*

***Wallago leiacanthus* Bleeker, 1853**



Fig. 44. *Wallago leiacanthus*, neotype, ZRC 38538, 72.0 mm SL, Sumatra: Jambi Province, east end of Danau Arang Arang.

Neotype: ZRC 38538, 72.0 mm SL, Sumatra: Jambi Province, east end of Danau Arang Arang, coll. M. Kottelat & H. H. Tan, 29 May.1994.
Remarks: Neotype designated by Tan & Ng (1996: 535, Fig. 1).
Current name: *Ompok leiacanthus*

***Wallagonia tweediei* Hora & Misra in Hora & Gupta, 1941**



Fig. 45. *Wallagonia tweediei*, holotype, ZRC 350 (plaster cast with head and fins built in, 1430 mm TL, 1340 mm SL), Malaysia: Pahang, Kuala Tahan.

Bull. Raffles Mus. 17: 18–21, Fig. 2.

Holotype: ZRC 350 (plaster cast with head and fins built in, 1430 mm TL, 1340 mm SL), Malaysia: Pahang, Kuala Tahan, coll. M. W. F. Tweedie, 1940 (**Fig. 45**).

Remarks: Right anterior gill arch of holotype in Zoological Survey of India (ZSI F 13365/1).

Current name: *Wallagonia tweediei* is considered a junior synonym of *Wallago leerii* (see Ng, 1992), and *Wallagonia* a junior synonym of *Wallago* (see Roberts, 1982).

Sisoridae

Bagarius rutilus Ng & Kottelat, 2000



Fig. 46. *Bagarius rutilus*, holotype, ZRC 40440, 415.0 mm SL, Vietnam: market in Hanoi.

J. S. Asian Nat. Hist. 5: 10, Fig. 3.

Holotype: ZRC 40440, 415.0 mm SL, Vietnam: market in Hanoi, coll. H. H. Ng & D. C. J. Yeo, 12 Sep.1997 (**Fig. 46**).

Paratypes: ZRC 45704, 1 ex., 700.0 mm SL, data as for holotype. ZRC 45705, 1 ex., 345.0 mm SL, data as for holotype.

Remarks: Additional paratypes in CAS, CMK, MNHN and NRM

Current name: *Bagarius rutilus*

***Caelatoglanis zonatus* Ng & Kottelat, 2005**



Fig. 47. *Caelatoglanis zonatus*, holotype, ZRC 49885, 38.6 mm SL, Myanmar: Kayin State, stream “Chon Son” between Kyondaw and Phadaw, about 20 km NW of Payathouzu (at border with Thailand), 15°25'N 98°15'E.

Ichthyol. Explor. Freshwaters 16: 14, Figs. 1–2.

Holotype: ZRC 49885, 38.6 mm SL, Myanmar: Kayin State, stream “Chon Son” between Kyondaw and Phadaw, about 20 km NW of Payathouzu (at border with Thailand), 15°25'N 98°15'E, coll. K. Kubota, Dec.2002.

Paratypes: ZRC 49886, 3 ex., 34.0–39.3 mm SL, data as for holotype.

Remarks: Additional paratypes in CMK and UMMZ.

Current name: *Caelatoglanis zonatus*

Conta pectinata Ng, 2005



Fig. 48. *Conta pectinata*, holotype, ZRC 49672, 46.4 mm SL, India: Assam: Dibrugarh.

Ichthyol. Explor. Freshwaters 16: 24, Figs. 1 & 2b.

Holotype: ZRC 49672, 46.4 mm SL, India: Assam, Dibrugarh, coll. H. H. Ng & D. C. J. Yeo, Jan.1999.

Paratypes: ZRC 49673, 2 ex., 44.2–49.1 mm SL, data as for holotype.

Remarks: Additional paratype in UMMZ.

Current name: *Conta pectinata*

***Hara minuscula* Ng & Kottelat, 2007**

Rev. Suisse Zool. 114: 492, Fig. 8

Paratypes: ZRC 43576, 8 ex., 23.3–29.3 mm SL, Myanmar: Bago, coll. H. H. Tan, 28 Feb.1999.

Remarks: Holotype in CAS. Additional paratypes in CAS, NRM and UMMZ.

Current name: *Hara minuscula*

***Oreoglanis frenatus* Ng & Rainboth, 2001**

Occ. Pap. Univ. Michigan Mus. Zool. 732: 7, Figs. 3b, 4b & 6.

Paratypes: ZRC 45707, 4 ex., 61.3–87.9 mm SL, Laos: Xieng Khouang province, Nam Ka basin, Houay Kheua at highway 7 bridge, 19°38'N 103°28'E, coll. W. J. Rainboth et al., 21 Apr.1998.

Remarks: Holotype and additional paratypes in UMMZ.

Current name: *Oreoglanis frenatus*

***Oreoglanis hypsiurus* Ng & Kottelat, 1999**



Fig. 49. *Oreoglanis hypsiurus*, holotype, ZRC 40440, 98.5 mm SL, Laos: Khammouan Province, upper Nam Theun, about 1 km upstream of confluence with Houay Nuok Lan, 18°4'9"N 105°29'44"E.

Ichthyol. Explor. Freshwaters 10: 376, Fig. 1.

Holotype: ZRC 40440, 98.5 mm SL, Laos: Khammouan Province, upper Nam Theun, about 1 km upstream of confluence with Houay Nuok Lan, 18°4'9"N 105°29'44"E, coll. M. Kottelat et al., 22 Mar.1996 (**Fig. 49**).

Paratypes: ZRC 40441, 6 ex., 29.1–85.6 mm SL, data as for holotype.

Remarks: Additional paratypes in CMK, LARRI and NRM.

Current name: *Oreoglanis hypsiurus*

***Oreoglanis lepturus* Ng & Rainboth, 2001**

Occ. Pap. Univ. Michigan Mus. Zool. 732: 17, Figs. 2b, 3e, 4e & 10.

Paratypes: ZRC 45708, 2 ex., 53.0–90.8 mm SL, Laos: Bolikamsai Province, Nam Phao about 2 km from Vietnam border, 18°23'N 105°19'E, coll. W. J. Rainboth et al., 1 Mar.1998.

Remarks: Holotype and additional paratypes in UMMZ.

Current name: *Oreoglanis lepturus*

***Oreoglanis setiger* Ng & Rainboth, 2001**

Occ. Pap. Univ. Michigan Mus. Zool. 732: 23, Figs. 2c, 3g, 4g & 12.

Paratypes: ZRC 46109 (2 ex., 29.1–63.2 mm SL), China: Yunnan Province, Simao, Mekong River upstream of Xiaoheijiang en route (46 km) from Jinggu to Ning'er, 23°21'37.2"N 100°55'16.2"E, coll. H. H. Tan & Y.-X. Cai, 21 May.2000.

Remarks: Holotype and additional paratypes in UMMZ.

Current name: *Oreoglanis setiger*

***Pareuchiloglanis macropterus* Ng, 2004**



Fig. 50. *Pareuchiloglanis macropterus*, holotype, ZRC 49124, 97.5 mm SL, China: Yunnan Province, Salween basin, Laowo River, a tributary of the Salween River (Nujiang) about 5 km to Liuku on Yongping–Liuku road, 25°50'18.6"N 98°53'46.8"E.

Zootaxa 428: 3, Fig. 1.

Holotype: ZRC 49124, 97.5 mm SL, China: Yunnan Province, Salween basin, Laowo River, a tributary of the Salween River (Nujiang) about 5 km to Liuku on Yongping–Liuku road, 25°50'18.6"N 98°53'46.8"E, 900 m above sea level, coll. Y.-X. Cai & H. H. Tan, 27 May.2000 (Fig. 50).

Remarks: Paratypes in BMNH and UMMZ.

Current name: *Pareuchiloglanis macropterus*

***Pareuchiloglanis nebulifer* Ng & Kottelat, 2000**



Fig. 51. ***Pareuchiloglanis nebulifer***, holotype, ZRC 45706, 94.8 mm SL, Laos: Houaphan Province, small creek (tributary of Houai Siam) upstream of Ban Kangpabong, 20°19'36"N 104°25'1"E.

J. S. Asian Nat. Hist. 5: 11, Fig. 4.

Holotype: ZRC 45706, 94.8 mm SL, Laos: Houaphan Province, small creek (tributary of Houai Siam) upstream of Ban Kangpabong, 20°19'36"N 104°25'1"E, coll. M. Kottelat et al., 11 May.1999.

Remarks: Paratypes in CMK and LARRI.

Current name: *Pareuchiloglanis nebulifer*

***Pimelodus botius* Hamilton, 1822**



Fig. 52. ***Pimelodus botius***, neotype, ZRC 50223, 74.6 mm SL, India: West Bengal, Hooghly River at Kalna, 23°13'30.0"N 88°22'39.0"E.

Fishes of the Ganges: 192.

Neotype: ZRC 50223, 74.6 mm SL, India: West Bengal, Hooghly River at Kalna, 23°13'30.0"N 88°22'39.0"E, coll. H. H. Ng & D. C. J. Yeo, 24 Jan.1999.

Remarks: Neotype designated by Ng (2005b: 3, Fig. 1).

Current name: *Glyptothorax botius*

Pseudecheneis maurus Ng & Tan, 2007



Fig. 53. *Pseudecheneis maurus*, holotype, ZRC 50638, 54.8 mm SL; Vietnam: Da Nang province, Song Thuy Loan drainage, Ban Na hill station, Cat Lon stream, ca. 9 km along road before summit, 16°0'39.2"N 108°1'2.6"E.

Zootaxa 1406: 26, Fig. 1.

Holotype: ZRC 50638, 54.8 mm SL; Vietnam: Da Nang province, Song Thuy Loan drainage, Ban Na hill station, Cat Lon stream, ca. 9 km along road before summit, 16°0'39.2"N 108°1'2.6"E, 722 m above sea level, coll. H. H. Tan & A. D. Tran, 28 Feb.2005 (**Fig. 53**).

Current name: *Pseudecheneis maurus*

***Pseudecheneis sympelvicus* Roberts, 1998**



Fig. 54. *Pseudecheneis sympelvicus*, holotype, ZRC 40359, 56.5 mm SL, Laos: Central Laos, Mekong basin, Nam Theun watershed, Nam Veo, tributary of Nam Phao, 25 km east of Lak Sao.

Raffles Bull. Zool. 46: 290, Fig. 1.

Holotype: ZRC 40359, 56.5 mm SL, Laos: Central Laos, Mekong basin, Nam Theun watershed, Nam Veo, tributary of Nam Phao, 25 km east of Lak Sao, coll. P. Vongsay, 16 Feb.1996.

Paratype: ZRC 40360, 56.3 mm SL, data as for holotype.

Current name: *Pseudecheneis sympelvica* (emendation of the gender of the specific epithet as discussed in Eschmeyer, 2006)

***Pseudolaguvia muricata* Ng, 2005**

Zootaxa 1044: 41, Fig. 3.

Paratypes: ZRC 50382, 3 ex., 21.2–22.6 mm SL, Bangladesh: Rangpur District, Ghaghat (Jagat) River, 7 km E of Rangpur on Badarganj road, 25°45'N 89°7'E, coll. W.J. Rainboth & A. Rahman, 3 Apr.1978.

Remarks: Holotype in UMMZ. Additional paratypes in CAS, NRM and UMMZ.

Current name: *Pseudolaguvia muricata*

***Sisor rabdophorus* Hamilton, 1822**



Fig. 55. *Sisor rabdophorus*, neotype, ZRC 45829, 65.6 mm SL, India: West Bengal state, Bhagirathi River at crossing point between Kalna (Bardhaman District) and Nisinghapur (Nadia District), 23°13'33"N 88°32'41.4"E.

Fishes of the Ganges: 208.

Neotype: ZRC 45829, 65.6 mm SL, India: West Bengal state, Bhagirathi River at crossing point between Kalna (Bardhaman District) and Nisingapur (Nadia District), 23°13'33"N 88°32'41.4"E, coll. H. H. Ng and D. C. J. Yeo, 22 Jan.1999 (**Fig. 55**).

Remarks: Neotype designated by Ng (2003d: 2873).

Current name: *Sisor rabdophorus*

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